## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PCT application of SHUTTLEWORTH, INC., et al	) JC20 Rec'd PET/PTO	1 6 SEP 2005
International Application	)	
Number PCT/US2004/008021	) Mailing Date	
	) 22 June 2004	
International Filing Date	j)	
17 March 2004	) Agent's File	
	) Reference:	
Title of Invention	) 3161-309SHUT	
RAPID RECONFIGURABLE	)	
SERVO CORRECTION ZONE	)	
CONVEYOR	)	

SUBMISSION OF APPOINTMENTS OF AGENT; FORMAL DRAWING SHEETS AND SUBSTITUTE SHEET 2 OF REQUEST

Commissioner for Patents P O Box 1450 Alexandria, VA 22313-1450

Attn: RO/US

Dear Sir/Madam:

Applicant submits herewith five Appointments of Agent and substitute formal drawing sheets 1-21. We are also enclosing substitute sheet 2 of the Request with a correction in the applicant/inventor for SHUTTLEWORTH, James J. We believe that this application conforms to the requirements of the PCT.

"Express Mail" label number EV 33408680345
Date of Deposit 22 June 2007

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, PO Box 1450, Alexandría Virgina 22313-1450.

Signature of person mailing paper or fee

Respectfully submitted

John V. DANILUCK, #40,581 Woodard, Emhardt, Moriarty,

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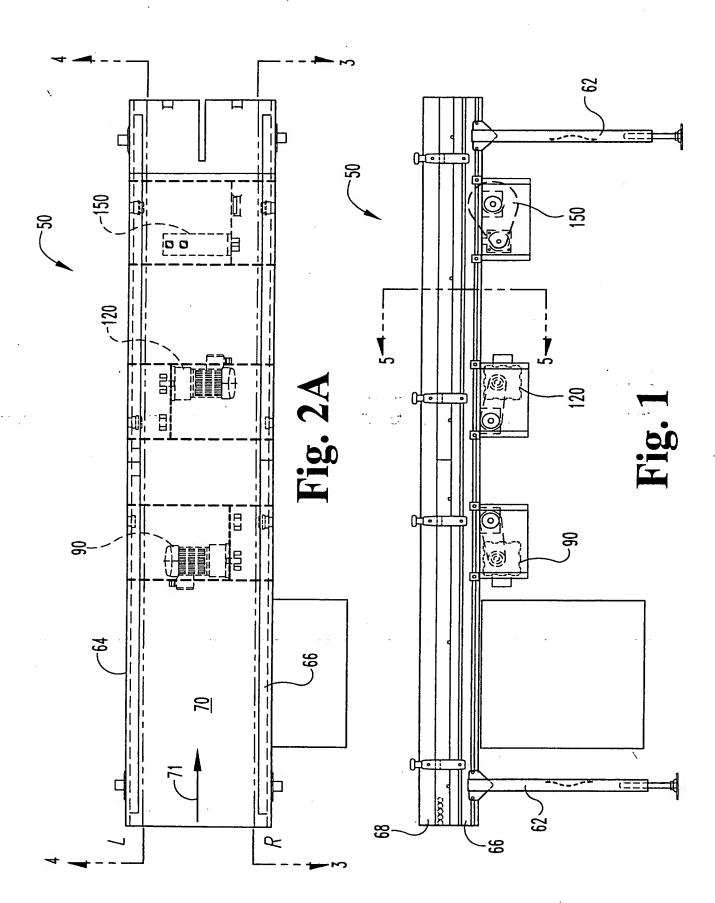
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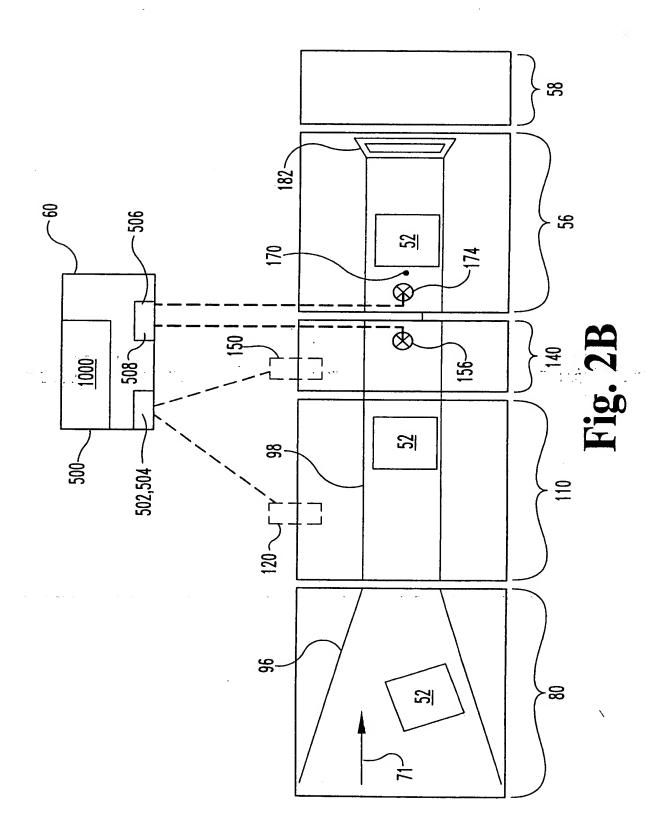
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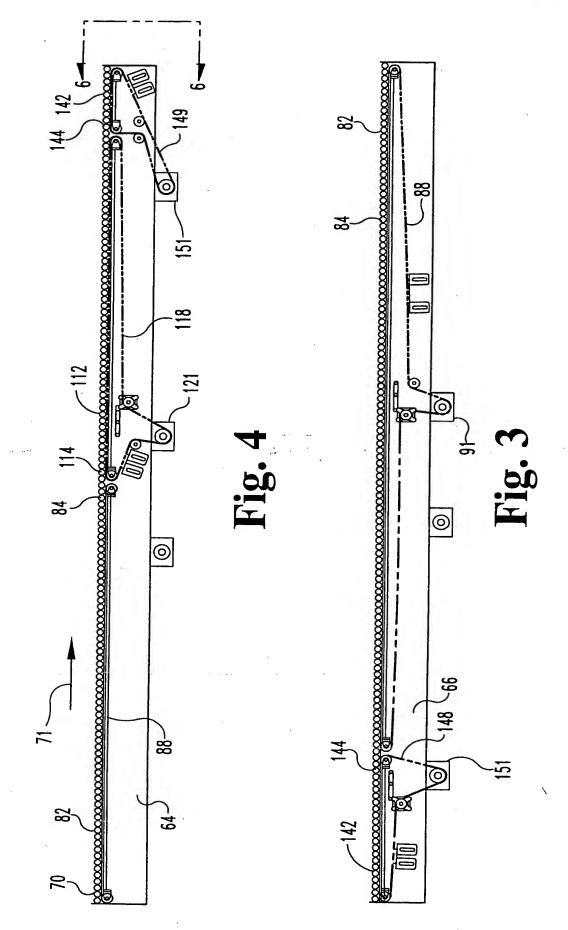
Enclosures: Five Appts. of Agent; Formal Drawing Sheets 1-21;

Page Two of Request

cc: IB with Page 2 of Request and Appts. of Agent







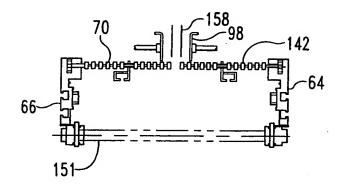


Fig. 6

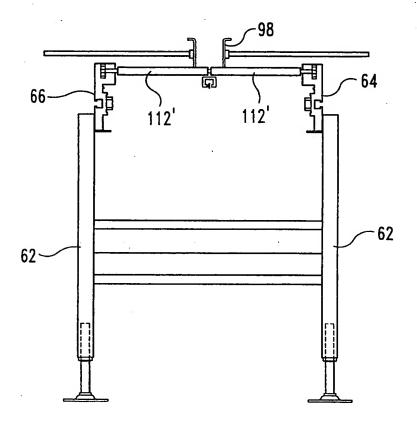
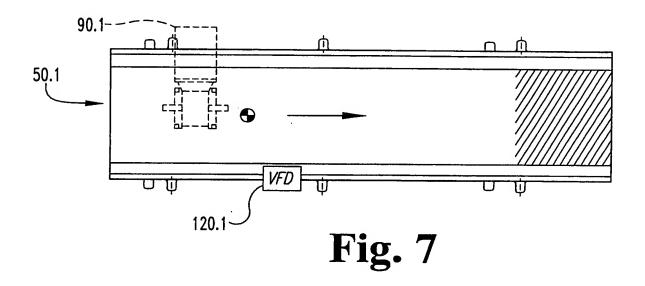
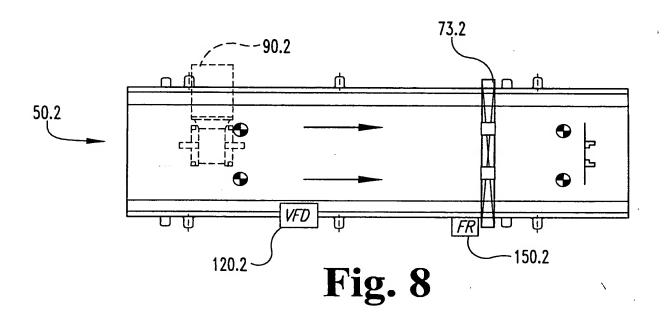


Fig. 5





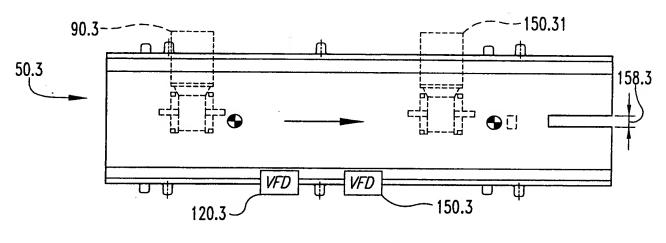
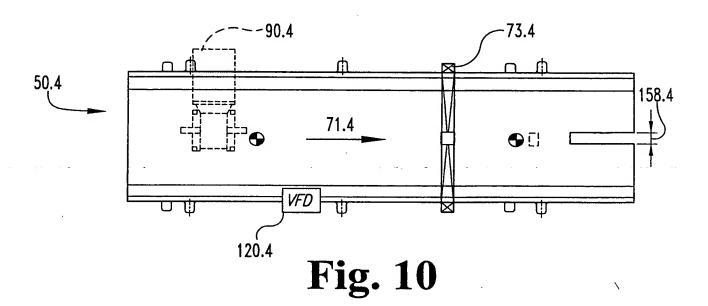
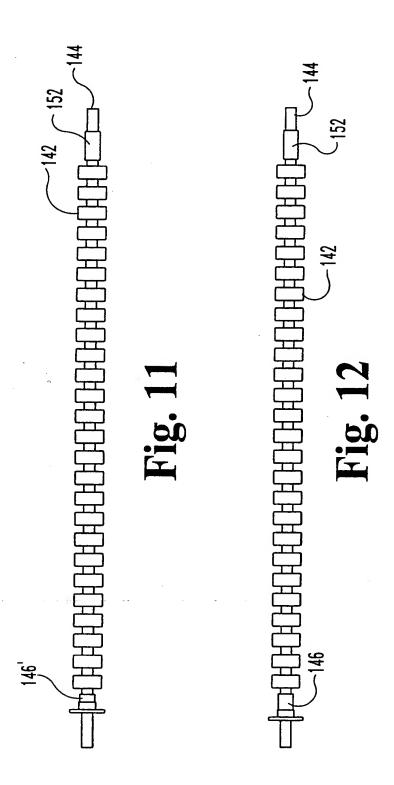


Fig. 9





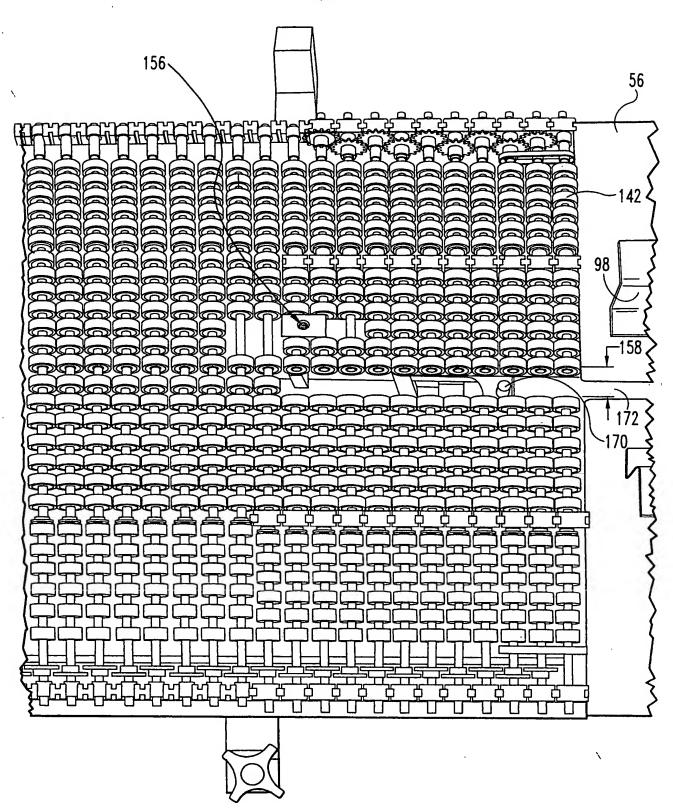
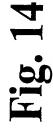
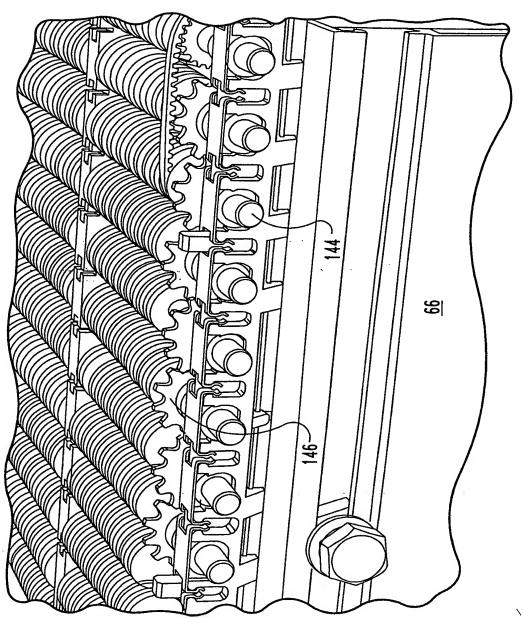
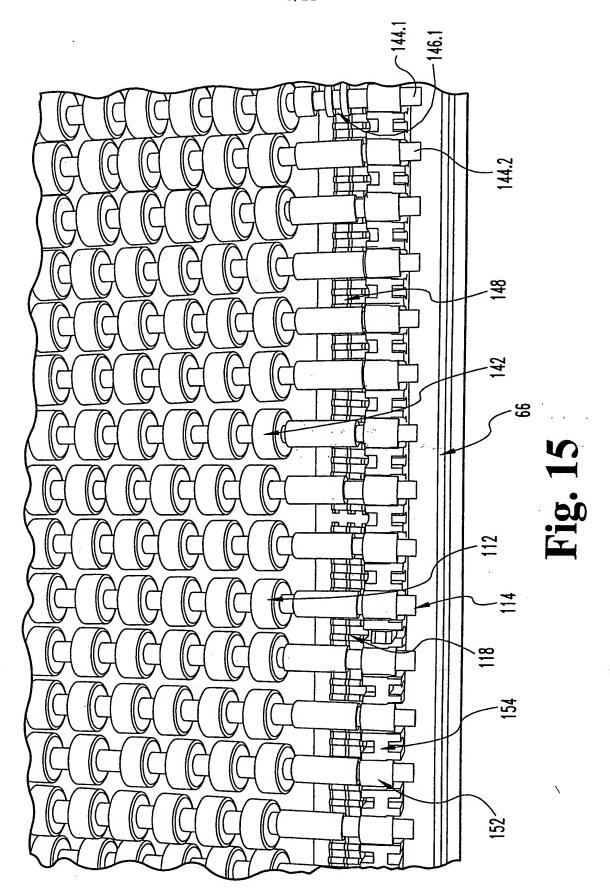
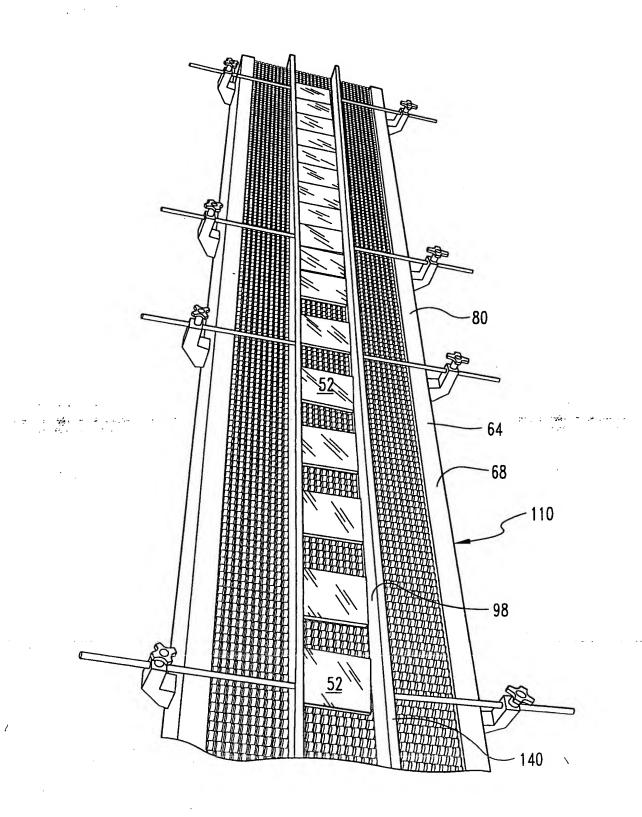


Fig. 13

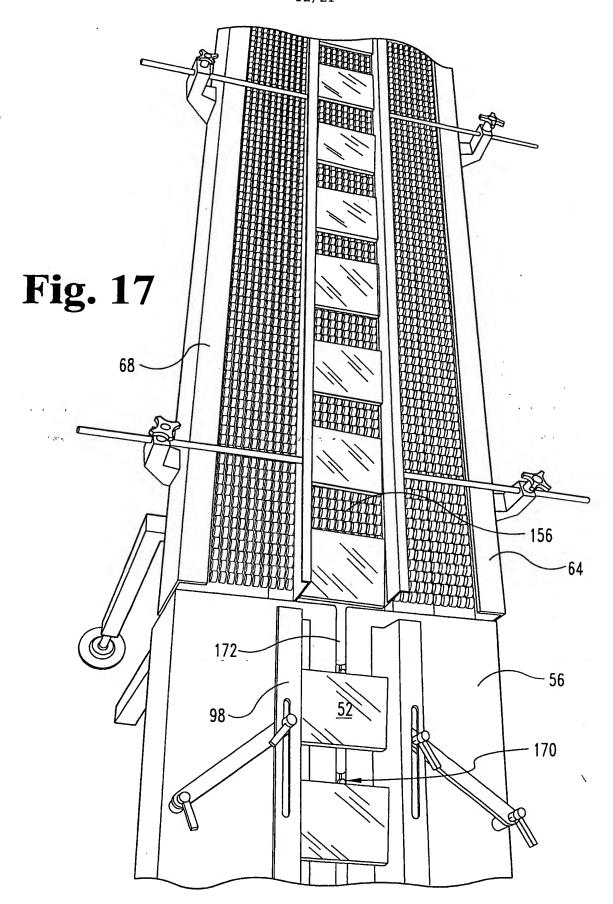




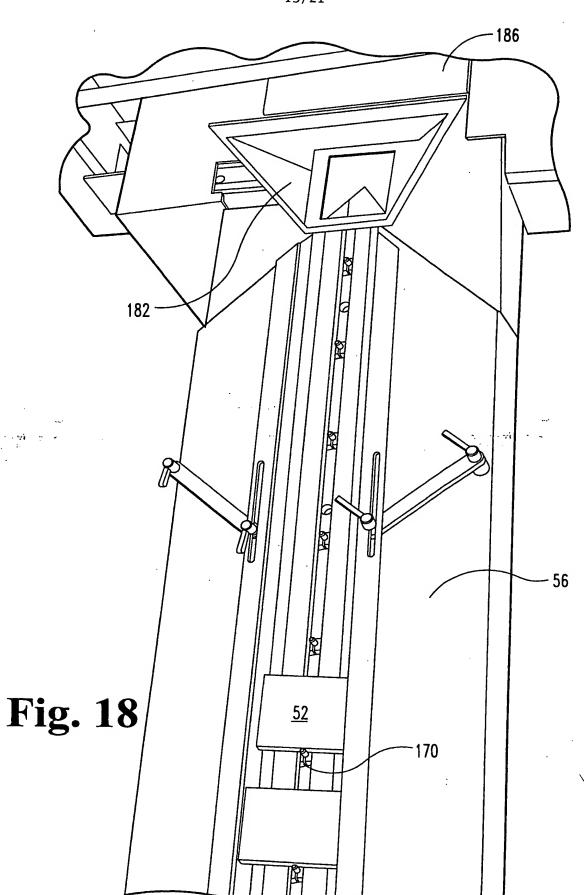


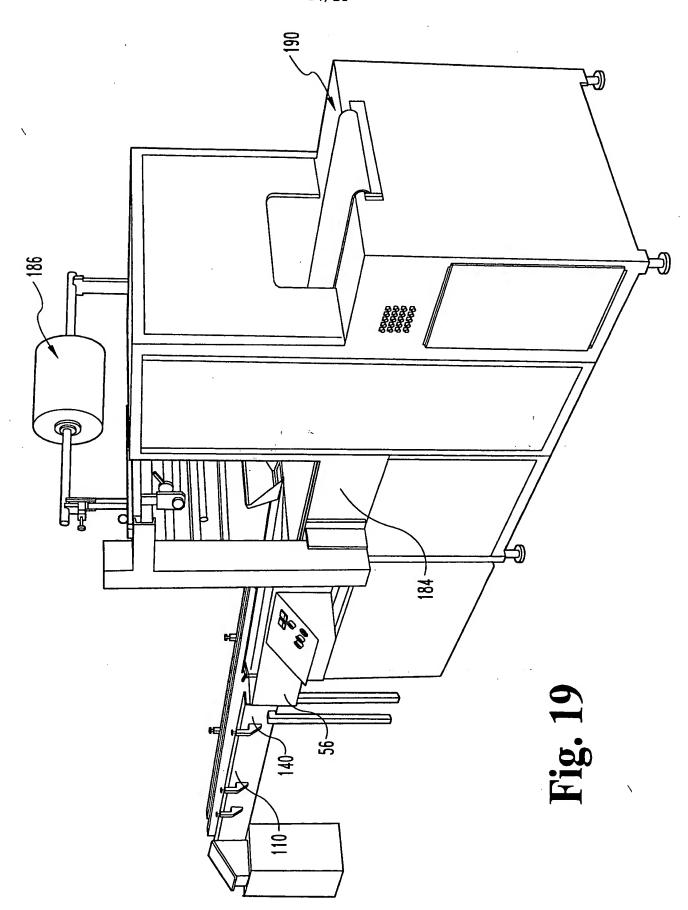


**Fig. 16** 









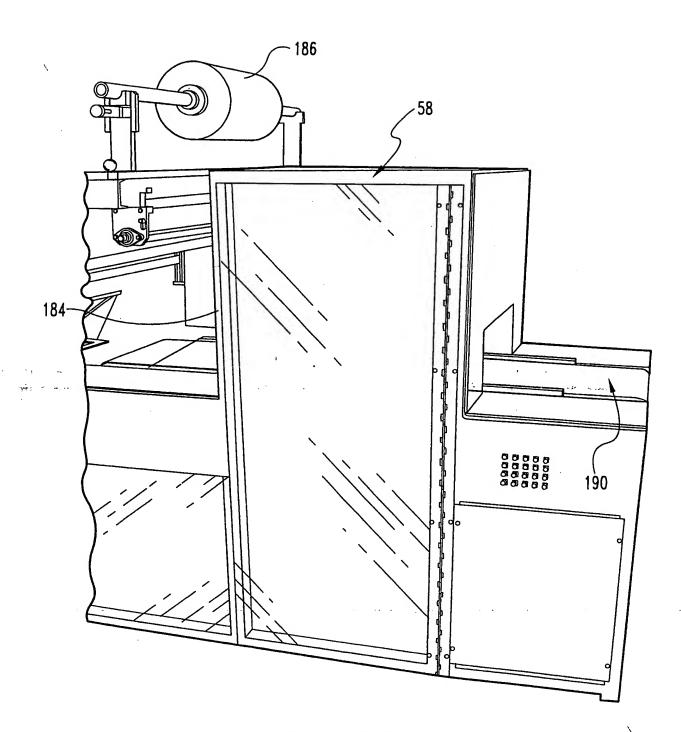
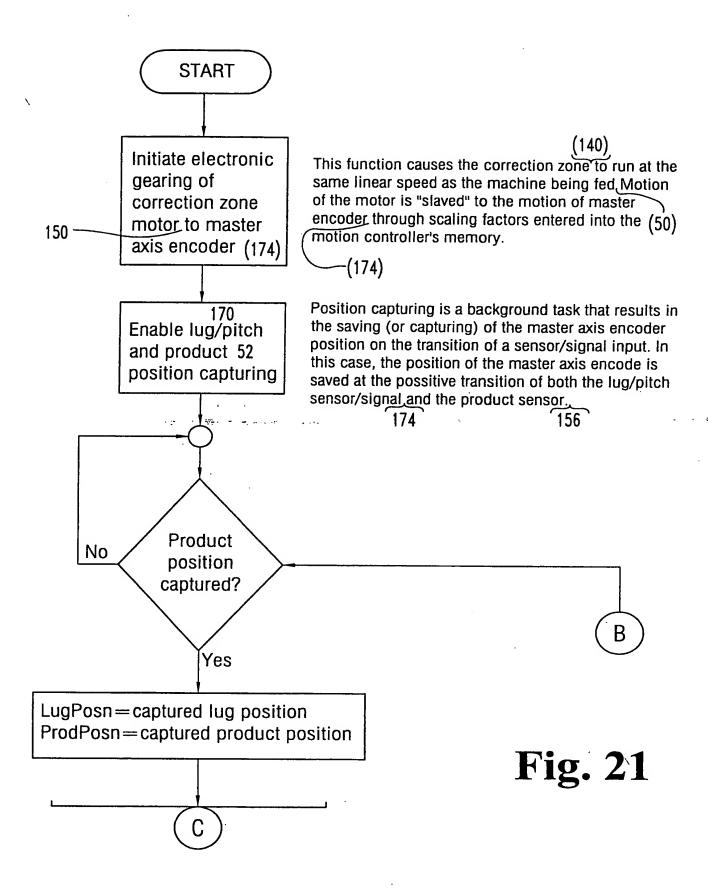


Fig. 20



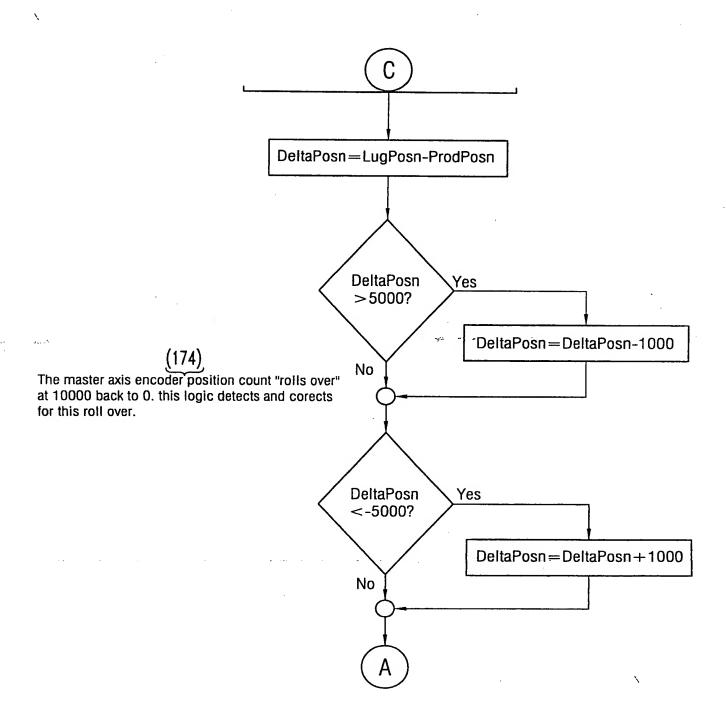
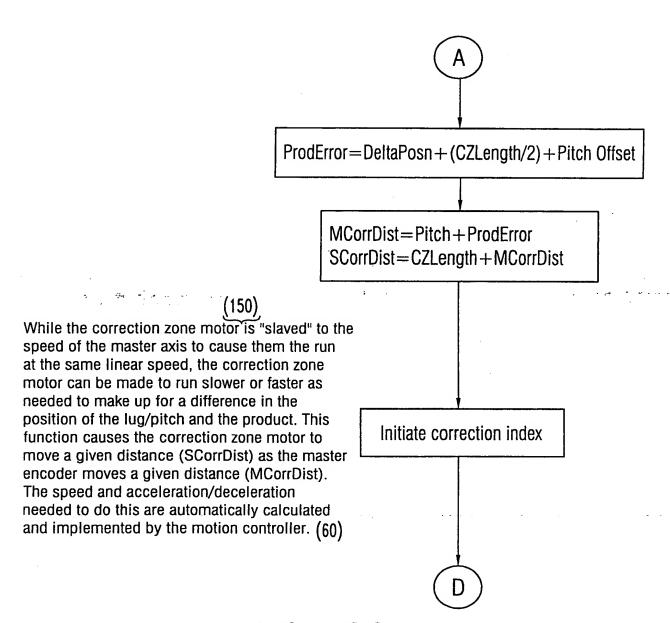
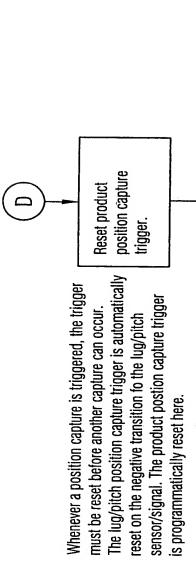


Fig. 22



**Fig. 23** 



**Fig. 24** 

Variable Description

CZLength:. Correction zone length (in inches) entered via the OPI.

Pitch: Distance between lugs/pitch marks (in inches) entered via the OPI.

Lugposn: Position (in encoder counts) of the lug/pitch mark.

ProdPosn: Position (in encoder counts) of the product.

DeltaPosn: Difference between LugPosn and ProdPosn. Distance (in inches) that the product leads/lags he lug/pitch mark.

ProdError: Product position error. Distance (in inches) that the product needs to be advanced/retarded so that it can match the position of the lug/pitch mark.

change the apparent position of the Lug/pitch mark sensor/signal instead of changing its PitchOffset: Manual lug/pitch mark adjustment factor (in inches) entered via the OPI. Can be used to actual physical position.

McorrDist: Master correction distance. Master axis encoder distance remaining to be used to make the ScorrDist: Slave correction distance. Correction zone motor distance moved during a correction index. correction index.

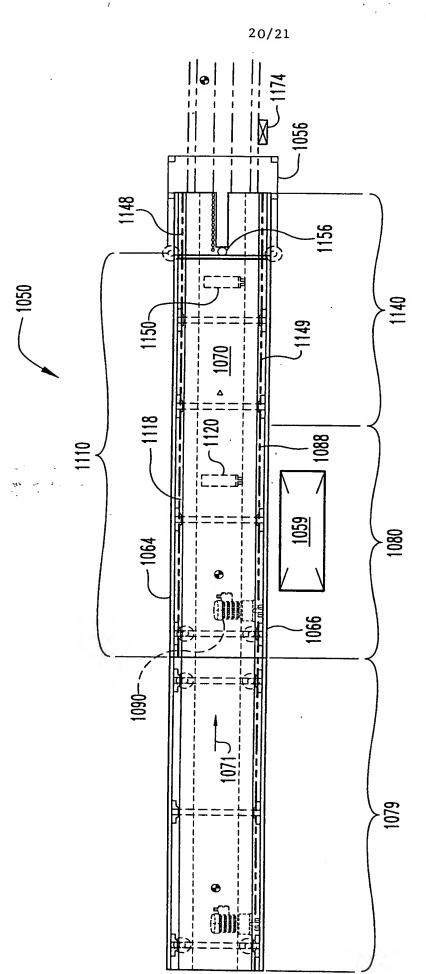


Fig. 25

